



Forms and Instructions for Environmental Performance Report

Staff's Proposal

Prepared in Support of the 2005 Integrated Energy Policy
Report Update Proceeding (04-IEP-01)

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Basic Information and Schedule

- The Energy Commission is requesting timely information, comments, and suggestions on staff's proposed "Forms and Instructions" to facilitate use in the 2005 EPR
- Comments on proposal are due by November 29, 2005
- Individual power plant operators would be required to return the completed Forms before February 15, 2005



Form 1001

This form relates collects data such as the basic power plant identification and location.

<u>Data</u>	<u>Unit of Measure</u>
Name, Address, other contact information	Text
Lat./Long.	Degrees/Minutes/ Seconds or Universal Transverse Mercator (UTM) Coordinates
Parcel #	Found on Tax Records



Form 1002

This form collects data on the emission factors for hazardous air pollutants originating at operating power plants. It will be paired with existing air pollution and electrical generation databases.

<u>Data</u>	<u>Unit of Measure</u>
Emission Factor	A ratio of tons of pollutant to either fuel use or generation
Date of Source Test	MM/DD/YYYY



Form 1003

This form collects data on the criteria and non criteria emission factors from operating power plants, and includes CO₂. It will be paired with existing air pollution and electrical generation databases.

<u>Data</u>	<u>Unit of Measure</u>
Emission Factor	A ratio of tons of pollutant to either fuel use or generation
Verification	Codes are provided
Date of Test or Monitoring	MM/DD/YYYY



Form 1004

This form collects data on the criteria and non criteria emissions from cooling towers at power plants

<u>Data</u>	<u>Unit of Measure</u>
Circulating Water Rate	Gallons per minute
Total Dissolved Solids	Parts per million (ppm)
Drift Rate	% (of the circulating water rate)



Form 1005

This form classifies each operating power plant by its cooling technology.

<u>Data</u>	<u>Unit of Measure</u>
Cooling Technology	Codes are provided
Year Use Started	YYYY
% wet and % dry cooling	% of each for hybrid cooled power plants



Form 1006

This form collects data on the monthly volume of water used by operating power plants. It will be paired with existing electrical generation databases.

<u>Data</u>	<u>Unit of Measure</u>
Water Use	Gallons or Acre-feet
Water Supply Source	Codes are provided



Form 1007

This form collects data on wastewater and solid waste discharge from operating power plants' cooling technology. It will be paired with existing electrical generation databases.

<u>Data</u>	<u>Unit of Measure</u>
Wastewater Disposal Method	Codes are provided
Year Method Started	YYYY
Quantity Discharged per Year	Million Gallons, acre-feet, or tons



Form 1009

This form collects data on the economic contribution of power plants to their local economies.

<u>Data</u>	<u>Unit of Measure</u>
Permanent Employees	Number
Payroll of Permanent Employees	Dollars
Contract Employees	Number
Payroll of Contract Employees	Dollars



Form 1009 (continued)

<u>Data</u>	<u>Unit of Measure</u>
Property Taxes	Dollars
Sales Taxes	Dollars
City or County Taxes	Dollars
Franchise or Local Fees	Dollars
Payments in lieu of taxes	Dollars



Structure of Form 1008

This form collects basic information about hydroelectric facilities' locations and operations in 2003. This form is in five parts.

- A - Basic Location and ID
- B - Reservoir Storage
- C - Sedimentation
- D - Peaking Energy Production
- E - Operations and Hydrology



Form 1008 – A Basic Location and ID

<u>Data</u>	<u>Unit of Measure</u>
Federal Energy Regulatory Commission (FERC) identification information	Text
# miles associated with project	miles
Annual inflow	Acre-feet/year



Form 1008 - A Basic Location and ID (continued)

<u>Data</u>	<u>Unit of Measure</u>
Power house identification	Names, ID, date of commercial operation, location, county
By-pass identification	Name, location, length in miles
Infrastructure identification	Name, location, county



Form 1008 – B Reservoir Storage

<u>Data</u>	<u>Unit of Measure</u>
Reservoir identification	Name, ID
Maximum Storage and Usable Storage	Acre-feet
Water Retention Time	Days
Surface Area	Acres
Linear miles inundated	Miles



Form 1008-C Sedimentation

<u>Data</u>	<u>Unit of Measure</u>
Is reservoir sedimentation and problem?	Yes/No
% reduction in usable storage capacity	%
Are measures being taken to correct problems?	Yes/No
Type of sedimentation management	Code are provided



Form 1008 –D Peaking Energy Production

<u>Data</u>	<u>Unit of Measure</u>
Average Annual Peaking Energy	GWhr/year
% of Total Energy in 2003 that was Peaking	%
Is the generating unit dispatchable?	Yes/No
Was it dispatched in 2003?	Yes/No



Form 1008 - E Operations and Hydrology

<u>Data</u>	<u>Unit of Measure</u>
Stream Gauge Station	Name, Id, and USGS #
Peak streamflow prior to project development	Cubic feet per second (cfs)
Peak streamflow after project development	Cubic feet per second (cfs)
Avg. annual unimpaired flow below dam	Acre-feet/year



Form 1008 - E Operations and Hydrology

<u>Data</u>	<u>Unit of Measure</u>
Avg. Annual Flow through powerhouse	Acre feet/year
Imported inflows	Yes/No and Acre feet/year
Minimum instream flows	Yes/No and cubic feet per second (cfs)
Avg. annual flow in bypass reach	Acre feet/year



Next Steps

- Staff to meet with the Energy Report Committee on all comments received by November 29, 2005
- Committee issues an Order for data collection
- Business Meeting to Accept Proposal
- Receipt of data in early 2005
- Analysis of data for status and trends